

PCT COOPERATION TREATY

169

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

NAKAJIMA, Shiro
6F
Yodogawa 5-Bankan, 2-1-1 Yoyosaki 3-
chome, Kita-ku
Osaka-shi, Osaka 531-0072
JAPON



Date of mailing (day/month/year) 08 August 2001 (08.08.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference P25788-P0	International application No. PCT/JP01/06149

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. (for all designated States except US)
TANAKA, Teruto et al (for US)

International filing date : 17 July 2001 (17.07.01)

Priority date(s) claimed : 17 July 2000 (17.07.00)

Date of receipt of the record copy
by the International Bureau : 27 July 2001 (27.07.01)

List of designated Offices :

EP : BE, DE, GB
National : US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- ☒ time limits for entry into the national phase
- ☒ confirmation of precautionary designations
- ☒ requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:

Susumu Kubo

Telephone No. (41-22) 338.83.38

PARENT COOPERATION TREATY

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PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

NAKAJIMA, Shiro
6F
Yodogawa 5-Bankan
2-1, Toyosaki 3-chome, Kita-ku
Osaka-shi, Osaka 531-0072
JAPON



Date of mailing (day/month/year) 01 October 2001 (01.10.01)	
Applicant's or agent's file reference P25788-P0	IMPORTANT NOTIFICATION
International application No. PCT/JP01/06149	International filing date (day/month/year) 17 July 2001 (17.07.01)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 17 July 2000 (17.07.00)
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al	

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
17 July 2000 (17.07.00)	2000-215517	JP	31 Augu 2001 (31.08.01)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Khemais BRAHMI

Telephone No. (41-22) 338.83.38

PCT

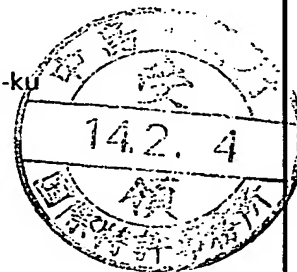
**NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES**

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

NAKAJIMA, Shiro
6F
Yodogawa 5-Bankan
2-1, Toyosaki 3-chome, Kita-ku
Osaka-shi, Osaka 531-0072
JAPON



Date of mailing (day/month/year) 24 January 2002 (24.01.02)		
Applicant's or agent's file reference P25788-P0		IMPORTANT NOTICE
International application No. PCT/JP01/06149	International filing date (day/month/year) 17 July 2001 (17.07.01)	Priority date (day/month/year) 17 July 2000 (17.07.00)
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

EP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 24 January 2002 (24.01.02) under No. WO 02/07431

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and the PCT Applicant's Guide, Volume II.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer <p style="text-align: center;">J. Zahra</p> Telephone No. (41-22) 338.91.11
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PCT REQUEST

Original (for SUBMISSION) - printed on 01.08.2001 06:34:54 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.03.2001)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Japan Patent Office (RO/JP)
0-7	Applicant's or agent's file reference	P25788-P0
I	Title of invention	IMAGE SIGNAL PROCESSING APPARATUS, IMAGE DISPLAY APPARATUS, MULTIDISPLAY APPARATUS, AND CHROMATICITY ADJUSTMENT METHOD FOR USE IN THE MULTIDISPLAY APPARATUS
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
II-5	Address:	1006, OazaKadoma, Kadoma-shi, Osaka 571-8501 Japan
II-6	State of nationality	JP
II-7	State of residence	JP
II-8	Telephone No.	06-6908-5831
II-9	Facsimile No.	06-6906-8766
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	TANAKA, Teruto
III-1-5	Address:	Room303, IwatahaisuToyosato, 6-14-16, Toyosato, Higashiyodogawa-ku Osaka-shi, Osaka 533-0013 Japan
III-1-6	State of nationality	JP
III-1-7	State of residence	JP

PCT REQUEST

Original (for SUBMISSION) - printed on 01.08.2001 06:34:54 PM

III-2	Applicant and/or Inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	KOKUBO, Atsushi
III-2-5	Address:	Room 1-6, PyuaOohata, 15-1, Oohata-cho, Takatsuki-shi, Osaka 569-1144 Japan
III-2-6	State of nationality	JP
III-2-7	State of residence	JP
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	NAKAJIMA, Shiro
IV-1-2	Address:	6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 531-0072 Japan
IV-1-3	Telephone No.	06-6373-3246
IV-1-4	Facsimile No.	06-6373-3105
IV-1-5	e-mail	npa@npa.gr.jp
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	EP: BE DE GB
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	US
V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE

PCT REQUEST

Original (for SUBMISSION) - printed on 01.08.2001 06:34:54 PM

VI-1	Priority claim of earlier national application		
VI-1-1	Filing date	17 July 2000 (17.07.2000)	
VI-1-2	Number	Patent Application No.2000-215517	
VI-1-3	Country	JP	
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	-
IX-2	Description	30	-
IX-3	Claims	8	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	9	-
IX-7	TOTAL	52	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-11	Copy of general power of attorney	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-18	Other (specified):	Payment form bearing revenue stamps for appropriate fee	-
IX-19	Figure of the drawings which should accompany the abstract	2	
IX-20	Language of filing of the international application	English	

PCT REQUEST

P25788-P0

Original (for SUBMISSION) - printed on 01.08.2001 06:34:54 PM

X-1	Signature of applicant, agent or common representative	
X-1-1	Name (LAST, First)	NAKAJIMA, Shiro

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 January 2002 (24.01.2002)

PCT

(10) International Publication Number
WO 02/07431 A2

(51) International Patent Classification⁷: **H04N 5/44**

Toyosato, Higashiyodogawa-ku, Osaka-shi, Osaka 533-0013 (JP). KOKUBO, Atsushi [JP/JP]; Room 1-6, PyuaOohata, 15-1, Oohata-cho, Takatsuki-shi, Osaka 569-1144 (JP).

(21) International Application Number: **PCT/JP01/06149**

(22) International Filing Date: **17 July 2001 (17.07.2001)**

(25) Filing Language: **English**

(74) Agent: NAKAJIMA, Shiro; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 531-0072 (JP).

(26) Publication Language: **English**

(81) Designated State (*national*): **US.**

(30) Priority Data:
2000-215517 17 July 2000 (17.07.2000) **JP**

(84) Designated States (*regional*): European patent (BE, DE, GB).

(71) Applicant (*for all designated States except US*): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, OazaKadoma, Kadoma-shi, Osaka 571-8501 (JP).

Published:

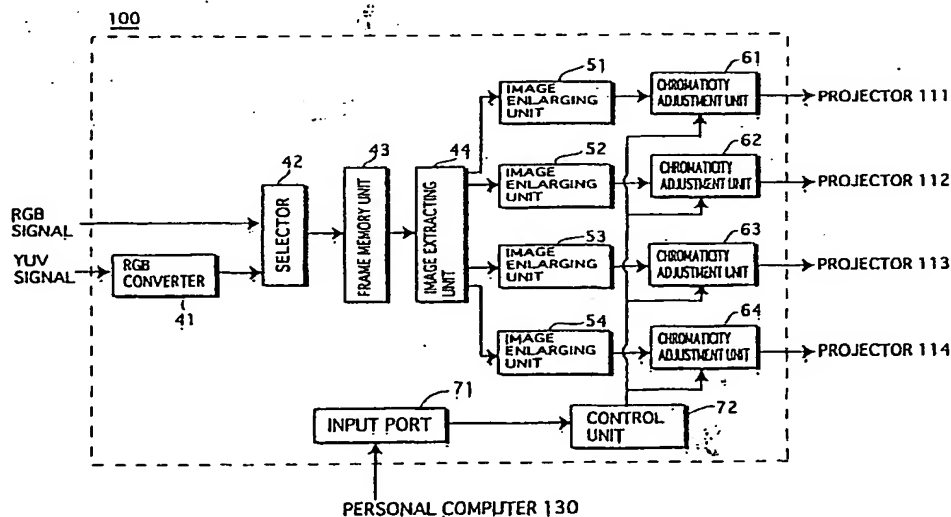
— without international search report and to be republished upon receipt of that report

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): TANAKA, Teruto [JP/JP]; Room303, IwatahaisuToyosato, 6-14-16,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMAGE SIGNAL PROCESSING APPARATUS, IMAGE DISPLAY APPARATUS, MULTIDISPLAY APPARATUS, AND CHROMATICITY ADJUSTMENT METHOD FOR USE IN THE MULTIDISPLAY APPARATUS



(57) Abstract: A multidisplay apparatus for distributing image signals for one screen to image display units, allowing the image display units to display a plurality of images side by side on the screen. The multidisplay apparatus includes a plurality of chromaticity adjustment units which respectively correspond to the plurality of image display units and each perform a calculation using signal values of one of the plurality of color image signals to be input to a corresponding image display unit and adjust the chromaticity of an image to be displayed by the corresponding image display unit for each of primary colors red, green, and blue, separately. This enables the images displayed by the image display units to have the same chromaticity, eliminates the color discontinuity between adjacent display images, and provides a sense of togetherness.

107 088019 (0500)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



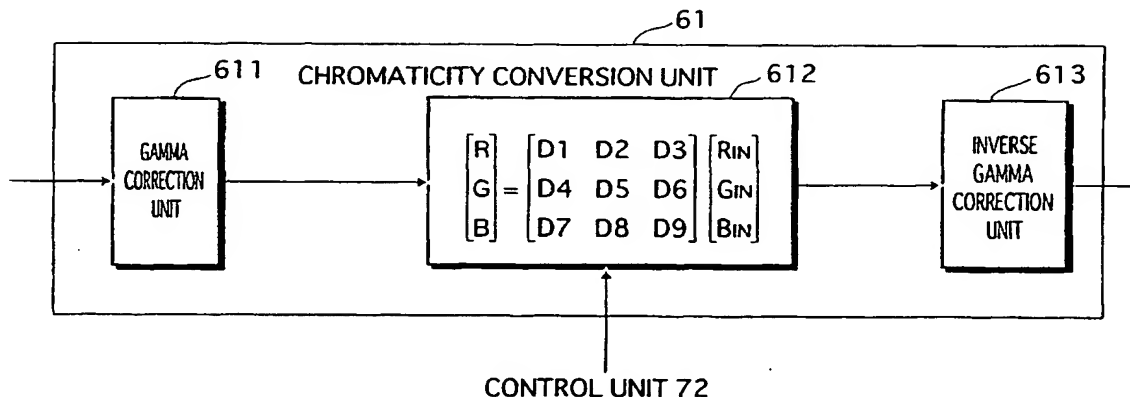
(43) International Publication Date
24 January 2002 (24.01.2002)

PCT

(10) International Publication Number
WO 02/007431 A3

- (51) International Patent Classification⁷: H04N 9/12 533-0013 (JP). KOKUBO, Atsushi [JP/JP]; Room 1-6, PyuaOohata, 15-1, Oohata-cho, Takatsuki-shi, Osaka 569-1144 (JP).
- (21) International Application Number: PCT/JP01/06149
- (22) International Filing Date: 17 July 2001 (17.07.2001) (74) Agent: NAKAJIMA, Shiro; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 531-0072 (JP).
- (25) Filing Language: English
- (26) Publication Language: English (81) Designated State (national): US.
- (30) Priority Data: 2000-215517 17 July 2000 (17.07.2000) JP (84) Designated States (regional): European patent (BE, DE, GB).
- (71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, OazaKadoma, Kadoma-shi, Osaka 571-8501 (JP). Published: — with international search report
- (72) Inventors; and (88) Date of publication of the international search report: 4 July 2002
- (75) Inventors/Applicants (for US only): TANAKA, Teruto For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MULTIDISPLAY APPARATUS AND CHROMATICITY ADJUSTMENT METHOD FOR IN THE MULTIDISPLAY APPARATUS



(57) Abstract: A multidisplay apparatus for distributing image signals for one screen to image display units, allowing the image display units to display a plurality of images side by side on the screen. The multidisplay apparatus includes a plurality of chromaticity adjustment units which respectively correspond to the plurality of image display units and each perform a calculation using signal values of one of the plurality of color image signals to be input to a corresponding image display unit and adjust the chromaticity of an image to be displayed by the corresponding image display unit for each of primary colors red, green, and blue, separately. This enables the images displayed by the image display units to have the same chromaticity, eliminates the color discontinuity between adjacent display images, and provides a sense of togetherness.

WO 02/007431 A3

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P25788-P0	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/JP 01/06149	International filing date (day/month/year) 17/07/2001	(Earliest) Priority Date (day/month/year) 17/07/2000
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

- ☐ the text is approved as submitted by the applicant.
- ☒ the text has been established by this Authority to read as follows:

**MULTIDISPLAY APPARATUS AND CHROMATICITY ADJUSTMENT METHOD FOR
IN THE MULTIDISPLAY APPARATUS**

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☒ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

3
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 01/06149

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N9/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 989 757 A (MITSUBISHI ELECTRIC CORP) 29 March 2000 (2000-03-29) page 2, line 51 -page 4, line 11; figures 10,12	1,2,7,8, 12,13,18 3-6,9, 10, 14-17,19
X	WO 00 18139 A (HONEYWELL INC) 30 March 2000 (2000-03-30) page 25, line 11 -page 27, line 17	1,7,12, 18
P,X	EP 1 039 749 A (HITACHI LTD) 27 September 2000 (2000-09-27) page 4, line 43 -page 6, line 19	1,7,12
X	& WO 99 31877 A (HITACHI LTD) 24 June 1999 (1999-06-24)	1,7,12
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

A document member of the same patent family

Date of the actual completion of the international search

29 January 2002

Date of mailing of the international search report

05/02/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
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Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Pigniez, T

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP 01/06149

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 020 868 A (KATYL ROBERT H ET AL) 1 February 2000 (2000-02-01) page 3, line 6 - line 33 column 5, line 3 - line 49 -----	1-20
A	US 5 396 257 A (INOUE FUMIO ET AL) 7 March 1995 (1995-03-07) column 2, line 39 - line 69 claim 13; figure 6 -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

JP 01/06149

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0989757	A	29-03-2000	WO EP	9953693 A1 0989757 A1	21-10-1999 29-03-2000
WO 0018139	A	30-03-2000	US EP WO	6310650 B1 1116386 A1 0018139 A1	30-10-2001 18-07-2001 30-03-2000
EP 1039749	A	27-09-2000	WO EP	9931877 A1 1039749 A1	24-06-1999 27-09-2000
US 6020868	A	01-02-2000	NONE		
US 5396257	A	07-03-1995	JP KR JP JP	5173523 A 9508134 B1 3092304 B2 5150730 A	13-07-1993 25-07-1995 25-09-2000 18-06-1993